

# ARTESYN AEE20W-M SERIES

20 Watts



The AEE20W-M series of 20 watt isolated DC-DC converters are designed for demanding instrumentation applications that require supplementary or reinforced insulation to comply with stringent industrial or medical safety standards.

## DATA SHEET

### Total Power:

20 Watts

### Input Voltage:

12 V, 24 V or 48 V

### # of Outputs:

Single, Dual

### SPECIAL FEATURES

- 4200 Vac reinforced insulation
- Insulation rated for 300 Vac working voltage
- Medical safety certifications
- 2x MOPP rated
- Wide 2:1 input voltage range
- Low leakage current <5  $\mu$ A
- Operating temperature range -40 °C to +85 °C (with derating)
- Input filter meets EN 55022, Class A and FCC, Level A
- Medical EMC Standard meets 4th Edition of EMI EN55011 and EMS EN60601-1-2
- 2"x 1" plastic package
- Three-year product warranty

### SAFETY

- EN/IEC 60601-1 3rd Edition, ANSI/AAMI ES60601-1
- 2x MOPP
- CE Mark

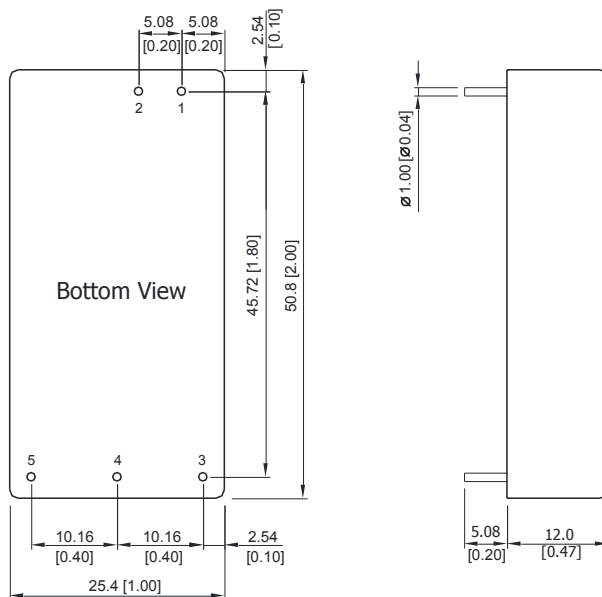
**ELECTRICAL SPECIFICATIONS**

Input	
Input range	9 - 18 Vdc; 18 - 36 Vdc; 36 - 75 Vdc
Efficiency	89%
Output	
Voltage tolerance	±1.0%
Line regulation	±0.5%
Load regulation	1.0%
Noise/ripple	150 mV
OCP and S/C protection	150%, Hiccup
Overvoltage protection	110%
Switching frequency	285 KHz
Temperature co-efficient	±0.02/°C
Isolation	
I/O isolation	4200 Vac rms
Insulation resistance	10 Gohm
Insulation capacitance	80 pF

**ENVIRONMENTAL SPECIFICATIONS**

Operating ambient temperature range	-40 °C to +80 °C
Storage temperature	-50 °C to +125 °C
Humidity	5% to 95% (non-condensing)
Calculated MTBF	1 Mhrs

MECHANICAL DRAWINGS



Pin Connectors		
Pin No.	Single Output	Dual Output
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vout	+Vout
4	No Pin	Common
5	-Vout	-Vout

- All dimensions in mm (inches)
- Tolerance: X.X±0.5 (X.XX±0.02)  
X.XX±0.25 (X.XXX±0.001)
- Pin diameter 1.0 ±0.5 (0.04±0.002)

## PHYSICAL CHARACTERISTICS

Case Size	50.8 x 25.4 x 12 mm (2.0 x 1.0 x 0.47 inches)
Case Material	Non-Conductive Black Plastic (flammability to UL94V-0 rated)
Pin Material	Tinned Copper
Weight	30 g

## ORDERING INFORMATION

Artesyn Part number	Input Voltage	Output 1 Voltage	Output 2 Voltage	Maximum Power
AEE04A12-M	9 - 18 V	5 V @ 4 A		20 W
AEE02B12-M	9 - 18 V	12 V @ 1.67 A		20 W
AEE02C12-M	9 - 18 V	15 V @ 1.33 A		20 W
AEE02H12-M	9 - 18 V	24 V @ 0.84 A		20 W
AEE02BB12-M	9 - 18 V	12 V @ 0.84 A	-12 V @ 0.84 A	20 W
AEE02CC12-M	9 - 18 V	15 V @ 0.67 A	-15 V @ 0.67 A	20 W
AEE04A24-M	18 - 36 V	5 V @ 4 A		20 W
AEE02B24-M	18 - 36 V	12 V @ 1.67 A		20 W
AEE02C24-M	18 - 36 V	15 V @ 1.33 A		20 W
AEE02H24-M	18 - 36 V	24 V @ 0.84 A		20 W
AEE02BB24-M	18 - 36 V	12 V @ 0.84 A	-12 V @ 0.84 A	20 W
AEE02CC24-M	18 - 36 V	15 V @ 0.67 A	-15 V @ 0.67 A	20 W
AEE04A48-M	36 - 75 V	5 V @ 4 A		20 W
AEE02B48-M	36 - 75 V	12 V @ 1.67 A		20 W
AEE02C48-M	36 - 75 V	15 V @ 1.33 A		20 W
AEE02H48-M	36 - 75 V	24 V @ 0.84 A		20 W
AEE02BB48-M	36 - 75 V	12 V @ 0.84 A	-12 V @ 0.84 A	20 W
AEE02CC48-M	36 - 75 V	15 V @ 0.67 A	-15 V @ 0.67 A	20 W



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Our products enable customer innovation in complex applications for a wide range of industries including semiconductor equipment, industrial, manufacturing, telecommunications, data center computing, and medical. With deep applications know-how and responsive service and support across the globe, we build collaborative partnerships to meet rapid technological developments, propel growth for our customers, and innovate the future of power.

PRECISION | POWER | PERFORMANCE

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